



# MacBook Pro 17" Models A1151 A1212 A1229 and A1261 Right Thermal Sensor Replacement

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## INTRODUCTION

This detects the internal temperature of your machine for heat management.



### TOOLS:

- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)
- [T6 Torx Screwdriver](#) (1)



### PARTS:

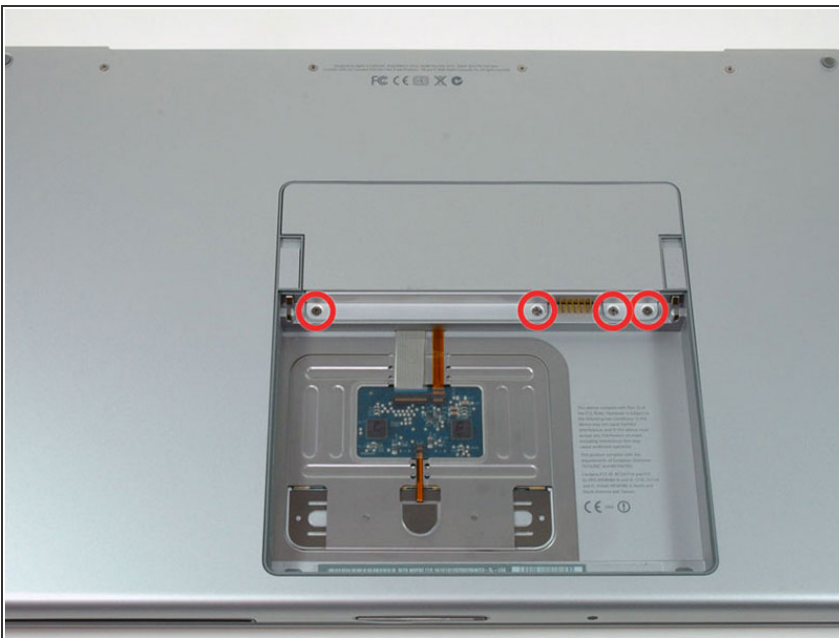
- [MacBook Pro 17" \(Models A1212/A1229\) Right Thermal Sensor](#) (1)
- [MacBook Pro 17" \(Model A1261\) Right Thermal Sensor](#) (1)

## Step 1 — Battery



- Use your fingers to push both battery release tabs away from the battery and lift the battery out of the computer.

## Step 2 — RAM Shield



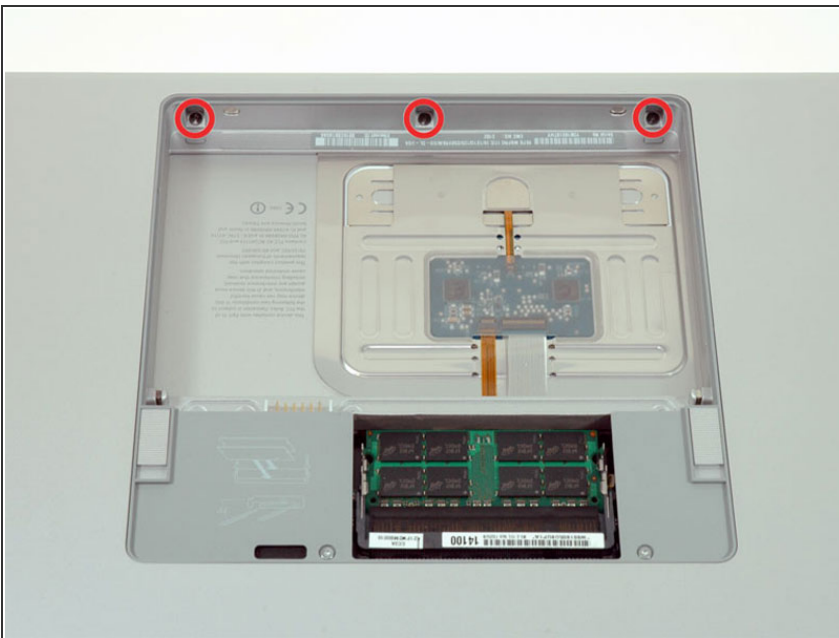
- Remove the four identical Phillips 3.4 mm screws from the memory door. These screws have 4 mm diameter heads rather than the 3 mm heads on the body screws.

### Step 3



- Lift the memory door up enough to get a grip on it, and slide it toward you, pulling it away from the casing.

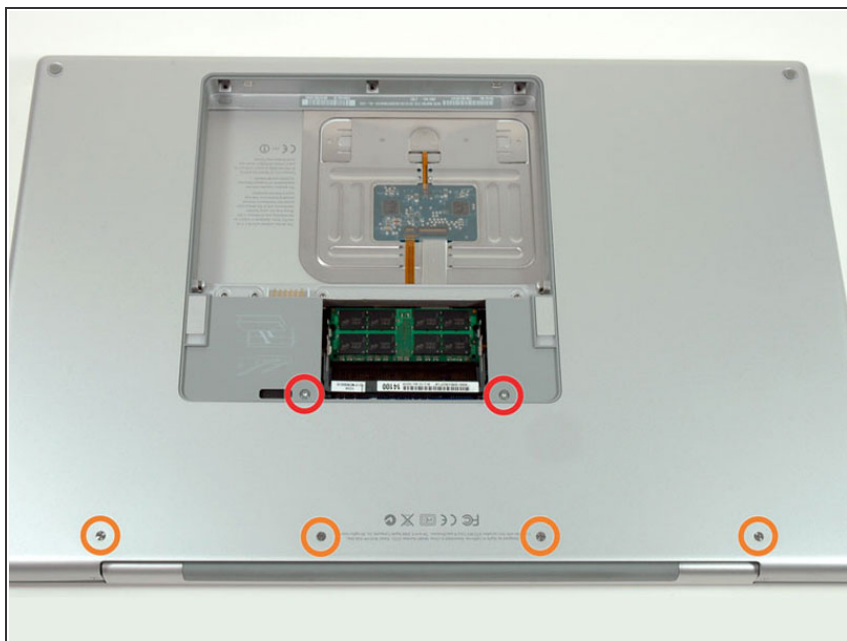
### Step 4 — Upper Case



- Remove the three Phillips screws in the battery compartment near the latch. Apple was nice enough to tilt these screws at a slight angle to make them easier to remove. On the A1261 these screws have 4 mm diameter heads rather than the 3 mm heads on the body screws.



## Step 5



- Remove the following six screws:
  - Two 14.5 mm T6 Torx screws on either side of the RAM slot.
  - Four 3.4 mm Phillips screws along the hinge.

## Step 6



- Remove the four 3.4 mm Phillips screws on the port side of the computer.

## Step 7



- Rotate the computer 90 degrees and remove the two Phillips screws from the rear of the computer.


## Step 8



- Rotate the computer 90 degrees again and remove the four Phillips screws from the side of the computer.

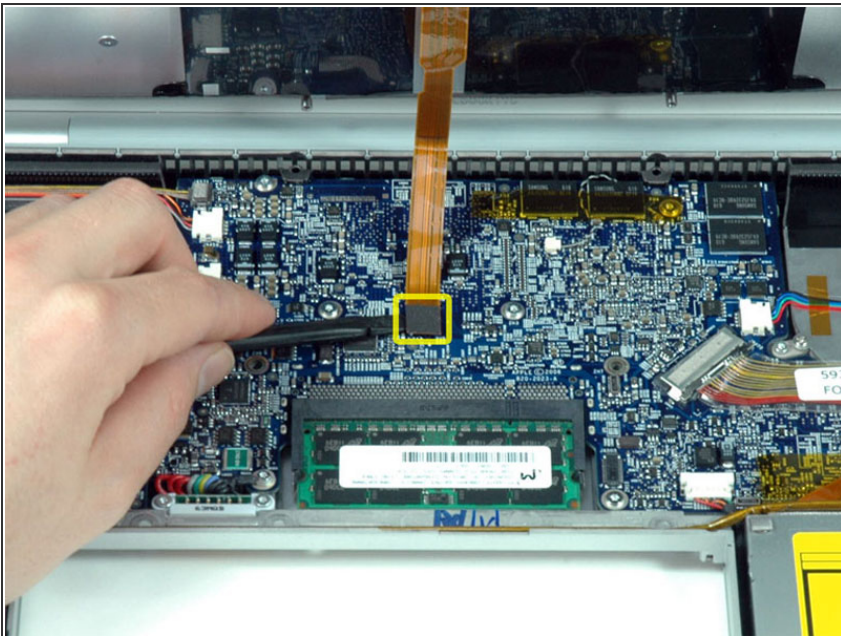
## Step 9



 Do not yank the upper case off quickly. The case is attached to the logic board via a ribbon cable.

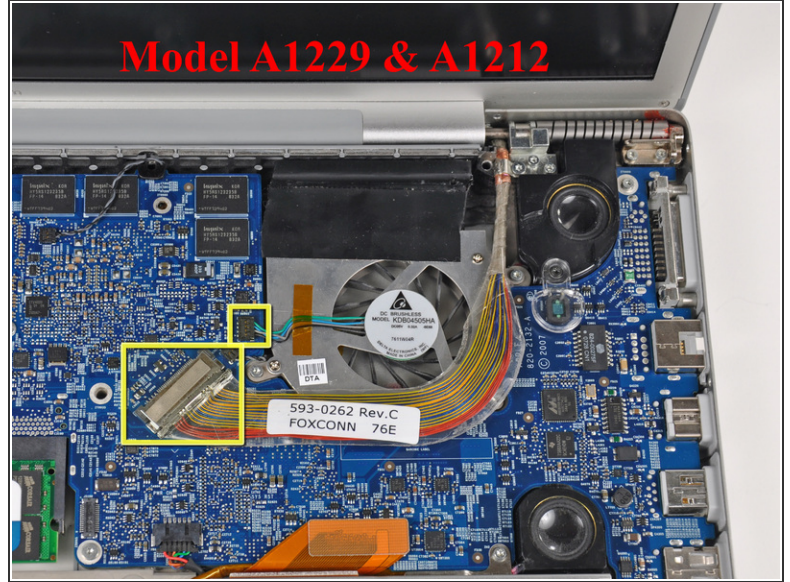
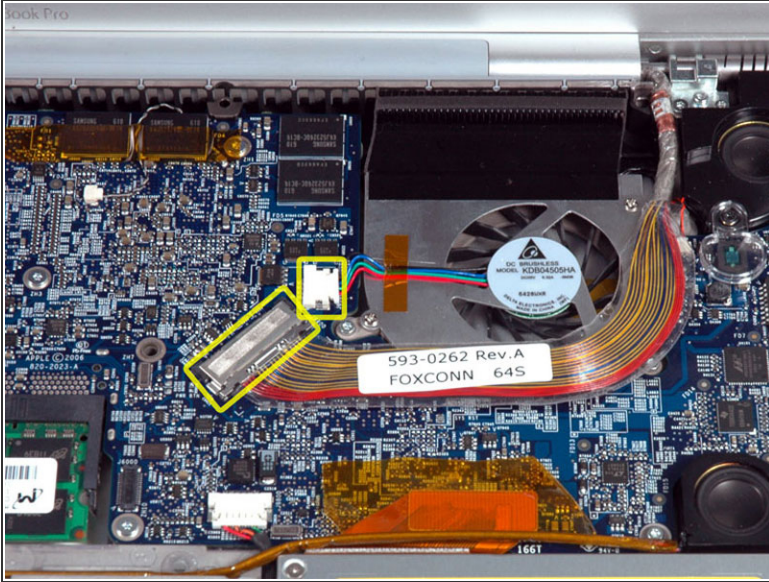
- Lift up the back of the case and work your fingers along the sides, freeing the case as you go. Once you have freed the sides, you may need to rock the case up and down to free the front of the upper case.

## Step 10



- Disconnect the trackpad and keyboard ribbon cable from the logic board.
- Remove the upper case.

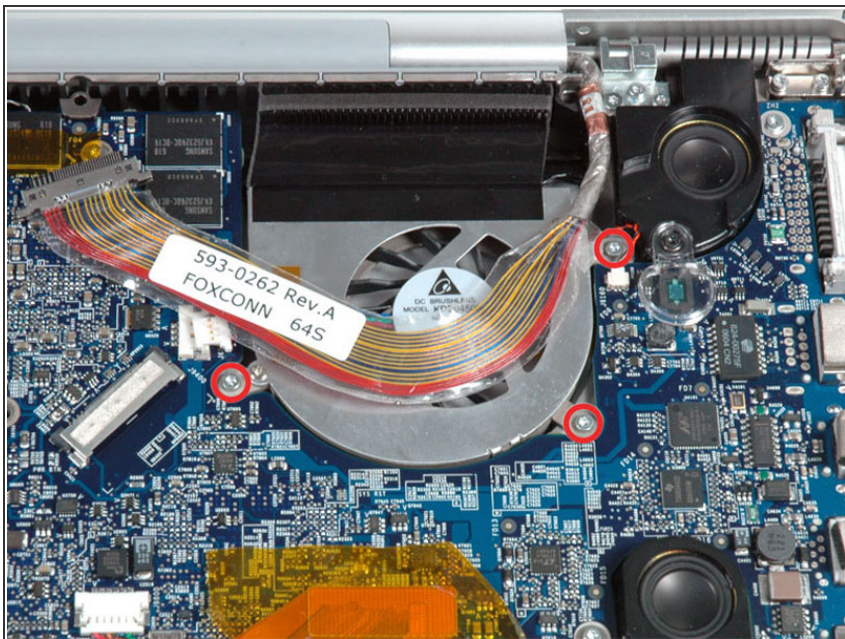
## Step 11 — Right Fan



- Disconnect the display data cable and right fan cable from the logic board.
- ⓘ If you have a MacBook Pro 17" Model A1229 or A1212, the connectors have different compositions and are highlighted in the second picture.
- ⚠ For models A1229 and/or A1212, carefully wedge the flat end of a spudger underneath the right fan cable to pry it up off its socket. Failure to do so may result in the whole socket coming off the motherboard instead of just the cable.

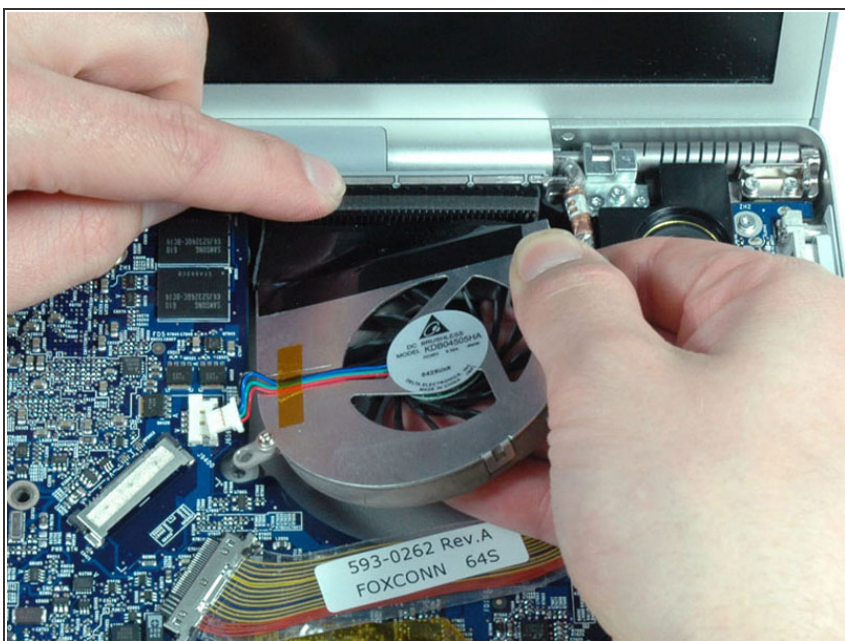


## Step 12



- Remove the three silver T6 Torx screws securing the right fan.

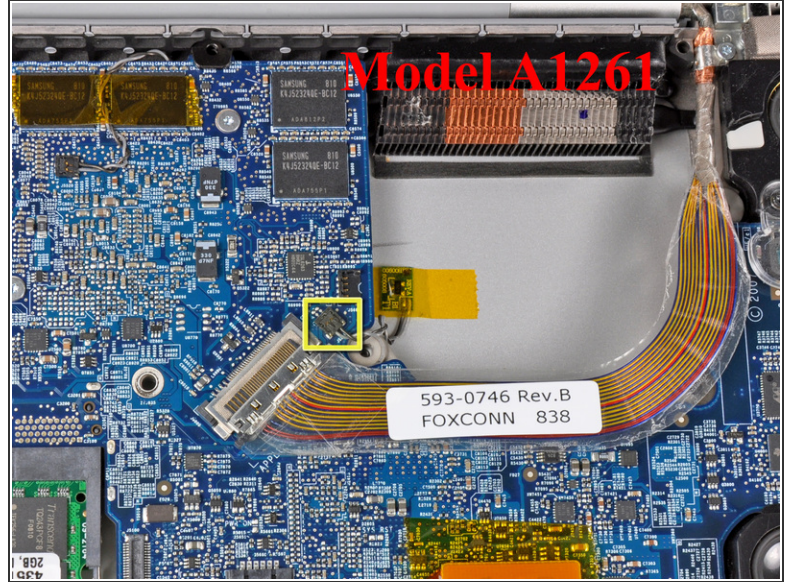
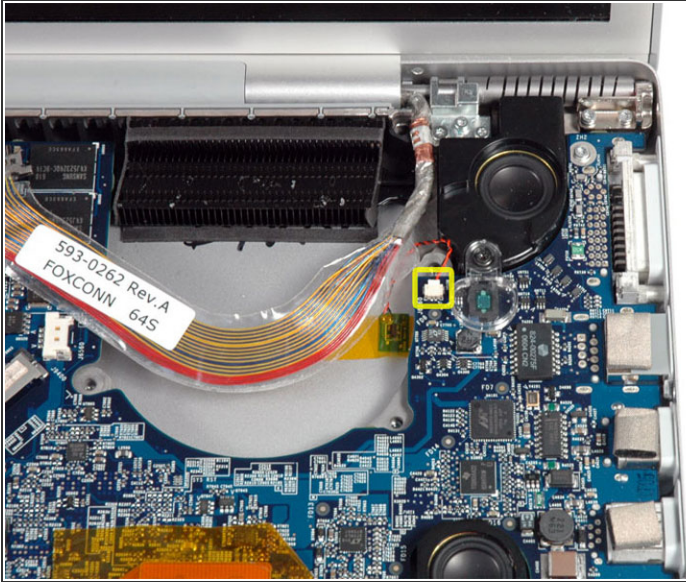
## Step 13



- Lift the right fan and its metal bracket out of the logic board.

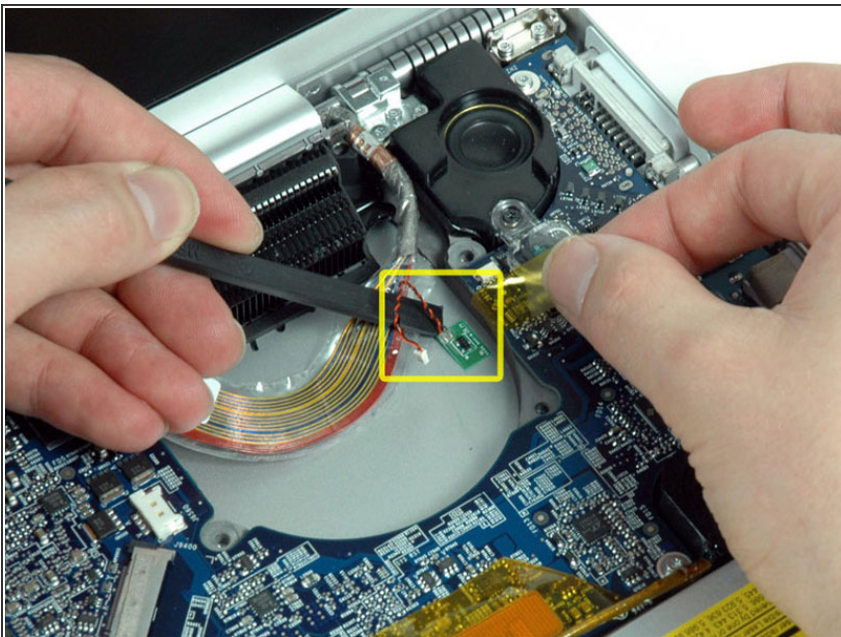


## Step 14 — Right Thermal Sensor



- Disconnect the right thermal sensor cable from the logic board.
- ⓘ If you have the A1261 model, the right thermal sensor cable is located in between the right fan connector and display data cable.

## Step 15



- Peel up the orange Kapton tape covering the right thermal sensor.
- Use a spudger to pry the right thermal sensor off the lower case.

To reassemble your device, follow these instructions in reverse order.

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